



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Transporter-2

**Issued:** 26 June 2021 / 0830L (1230Z)

**Valid:** 29 June 2021 / 1456 – 1554L (1856 – 1954Z)



**Forecast Discussion:** Deep easterly flow exists across Central Florida as the subtropical ridge axis is situated well to the north. Coastal showers are possible each morning, but chances subside as the east coast sea breeze moves inland by early afternoon each day. In this weather regime, afternoon and evening thunderstorms will typically stay west of the Space Coast. Elsewhere, a tropical easterly wave is approaching and is forecast to move through the Bahamas Sunday and move across the Florida peninsula on Monday. This will bring added cloud cover and extend rain chances throughout the day Monday. By Tuesday, the wave should be in the Gulf of Mexico, allowing weather conditions to settle back to normal at the Spaceport. The primary weather concerns for a Tuesday afternoon launch attempt are the Cumulus Cloud Rule and the Anvil Cloud Rules associated with inland thunderstorm activity.

On Wednesday, conditions should be much the same with possible morning coastal showers, with afternoon thunderstorms activity mostly west of the Spaceport. The primary weather concerns Wednesday remain the Cumulus Cloud Rule and the Anvil Cloud Rules.

Launch Day	Probability of Violating Weather Constraints							
	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather:	Low
24-Hour Delay	Liftoff Winds (200'):	100° 15 - 20 mph	Cirrus	Scattered	25,000	27,000	Solar Activity:	Low
	Probability of Violating Weather Constraints							
	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Temp/Humidity:	82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather:	Low	
Liftoff Winds (200'):	120° 12 - 17 mph	Cirrus	Scattered	25,000	27,000	Solar Activity:	Low	
<i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.</i>								
Next Forecast Will Be Issued		27 June 2021						